**FEATURE: CASE DEVELOPS BLADDER CONTROL TECHNOLOGY**

[SUGGESTED INTRO] BIOMEDICAL ENGINEERS HAVE DEVELOPED A REVOLUTIONARY ELECTRONIC SYSTEM THAT ALLOWS THOSE WITH SPINAL CORD INJURY TO CONTROL BLADDER FUNCTION. AS YOU’LL SEE IN THIS REPORT, THE DEVICE HAS ALREADY HAD A DRAMATIC EFFECT ON ONE PATIENT’S LIFE:

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<th>VIDEO</th>
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<td>FES patient Alison Battaglia exits her car with her K9 assistant. Video follows Alison into a Cleveland café. Dissolve to series of shots with Alison ordering coffee and pastry. Cut to wide shot of FES surgical implant surgery. Cute to CU of bladder.</td>
<td>[VOICEOVER] WHEN AN AUTOMOBILE ACCIDENT LEFT ALISON BATTAGLIA WITHOUT CONTROL OF HER LOWER BODY, INCLUDING HER BLADDER, IT STOLE HER ABILITY TO SCHEDULE HER DAILY LIFE. SUCCESSFUL TRIPS TO A RESTROOM BECAME RARE, AND TRAVELING A MAJOR CHORE, UNTIL ALISON RECEIVED A LIFE-CHANGING DEVICE. BIOMEDICAL ENGINEERS AT CASE WESTERN RESERVE UNIVERSITY AND THE CLEVELAND F-E-S CENTER, F-E-S FOR FUNCTIONAL ELECTRICAL STIMULATION, DEVELOPED THE VOCARE BLADDER SYSTEM, WHICH ALISON HAD SURGICALLY IMPLANTED. THE SYSTEM</td>
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VIDEO

system antenna control device.
Cut to animated graphic showing the signal pathway from the handheld external-antenna triggering device to nerves that contract the bladder and sphincter.

[ON-CAMERA INTERVIEW]

SOT & SUGGESTED SUPER:
Alison Battaglia, F-E-S patient, Received Bladder Control System

[VOICEOVER]

CONTROLS BLADDER AND URETHRAL SPHINCTER CONTRACTION BY SENDING ELECTRONIC SIGNALS ALONG THE SPINAL NERVE LEADING TO THEM. A HANDHELD CONTROL ANTENNA LETS ALISON AGAIN DETERMINE HER RESTROOM STOPS.
“My body would react in a way that I would get shivers, and as soon as I would get shivers going up my legs throughout my body in any way, I would know I have 10 seconds to get to the ladies room. Well now I know I have depending on what I’m drinking, I mean if it’s a moderate normal day, I have a 5 hour period of time that I can work with, so I can go to a restaurant that has an inaccessible bathroom and be with my friends. You have an opportunity to plan, and you’re in control of your body instead of your body taking over control of you.” TRT (00:35:22)

[HUNTER PECKHAM, A CASE PROFESSOR OF BIOMEDICAL ENGINEERING AND DIRECTOR OF THE CLEVELAND F-E-S CENTER OF EXCELLENCE, SAYS SYSTEMS LIKE ALISON’S CAN GREATLY IMPROVE -more-]
CASE DEVELOPS BLADDER CONTROL TECHNOLOGY - 3

VIDEO

[ON-CAMERA INTERVIEW]
SOT & SUGGESTED SUPER:
Hunter Peckham, professor of biomedical engineering, Case Western Reserve University

[SOUND BITE] Alison Battaglia
Cut to shot of coffee store clerk attending to Alison. Cut to shot of Alison receiving change. Cut to on-camera interview. Cut to shots of Alison having coffee at a table.

Cut-away to CU of Alison’s hands holding controller antenna. Cut back to shot of Alison, with coffee, at a table.

Cut to black.

AUDIO

[BRIDGE cont.]
DAILY LIFE FOR THOSE WITH SPINAL CORD AND OTHER SEVERE INJURIES.
“What the implanted bladder system means for a person with a disability is really, the ability to regain control of their life cycles. They don’t any longer have to worry about that they’re teaching in a classroom and they might have an accident, or they’re getting into a car and they’re going to void by mistake.” TRT (00:24:22)

“To say that my life has changed since my surgery is an understatement. I had the surgery I think about 4 years ago and my life has changed dramatically.” TRT (00:13:24)

[CLOSE] THE DEMAND FOR F-E-S TECHNOLOGIES INCREASES WITH EACH PATIENT SUCCESS, AND RESEARCHERS FROM CASE AND THEIR COLLEAGUES FROM THE OHIO NEUROSTIMULATION AND NEUROMODULATION PARTNERSHIP ARE WORKING ON BRINGING THE SYSTEMS TO A GLOBAL MARKET. THIS IS DAVE NAROSNY REPORTING FROM CASE WESTERN RESERVE UNIVERSITY, CLEVELAND.

-Case-

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